

**ABSTRACT**

A technique of positioning a recording head relative to an optical servo system in a magnetic recording tape system read/write assembly is described. The technique includes  
5 positioning an optical sensor of the optical servo system at a first position relative to a selected one of recording channels on the recording head and positioning the optical sensor at a second position relative to the selected recording channel using an alignment target on the recording head.

10 A recording head in a read/write assembly of a magnetic recording tape system is also described. The recording head includes recording channels fabricated on a wafer and an alignment target affixed to the wafer between a first read-write element of a recording channel and a second read-write  
15 element of the recording channel, the alignment target fabricated to produce an optical reflectance signal.

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